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#### ABSTRACT

Publication number: S51-132509

Date of Publication: November 17, 1976

Int. CI. B60C 19/12

Application number: \$50-56832

Date of filing: May 12, 1975

Applicant: Yasuyuki Tanaka

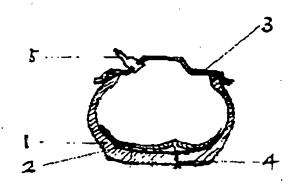
### A TIRE BLOWOUT PREVENTION MECHANISM

#### Abstract:

PROBLEM TO BE SOLVED: To provide the tire in which tire blowout is prevented even if jagged objects such as pegs are bit into a tread of tire.

SOLUTION: To achieve this object, there is provided a flap 2 at the inside face of tire 1. This flap 2 is made of rubber cloth or steel cord belt having the characteristics of toughness and elastic flexibility.

Thus, if a peg 4 projects into tire 1, since the flap 2 displaces inward, the peg 4 does not burst through the flap 2. Thereby tire blowout is prevented.



(54) DEVICE FOR PREVENTA PUNCTURE OF TYRE

(11) Kokai No. 51-132509 (43) 11:17.1976 (21) Appl. No. 50-56832

(22) 5.12.1975

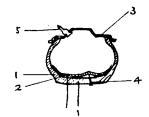
(71) YASUYUKI TANAKA (72) YASUYUKI TANAKA

(52) JPC: 77B54

(51) Int. Cl<sup>2</sup>. B60C19/12

PURPOSE: To provide a device for preventing puncture of a tyre which is not damaged by a foreign matter, such as a nail or the like, piercing through the tread by absorbing the rupturing force of the foreign matter such as a nail or the like.

CONSTITUTION: There is spread internally of the inside tyre tread a flap 2 made of a material, such as a canvas cloth coated with rubber or the like, which is tough, elastic and air-tight, and which serves to absorb the rupturing force by the foreign matter such as a nail 4 piercing through the tyre 1 by being depressed inwardly. As a result, the tyre is not damaged to keep the normal air pressure, and may be recovered to be the initial state if the foreign matter such as a nail or the like is removed.



(54) TYRE REPALCEMENT DEVICE

(11) Kokai No. 51-132510 (43) 11.17.1976 (21) Appl. No. 50-56010

(22) 5.14.1975

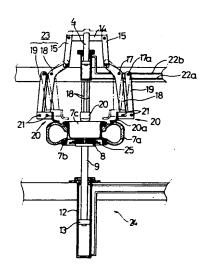
(71) TOA KOKI K.K. (72) AKIO IDE

(52) JPC: 77B55

(51) Int. Cl<sup>2</sup>. B60C25/06

PURPOSE: To provide a tyre replacement device adapted for easily securing to or removing from a disk wheel a tyre which is attached to a vehicle of any type including a common automobile and a large-sized special vehicle.

CONSTITUTION: The device is provided with a plurality of restrainers 20 for being abutted against the tyre 7a of the wheel 7, a link mechanism 5 for adjusting the distances between the retainers from one another while retaining the horizontal positions of the retainers at the initial positions, a carrier 8 for carrying the disk wheel 7c of the wheel and for moving the same toward the retainers.



(54) TRACK FOR TRANSPORTATION APPARATUS OF AIR CUSHION TYPE

(11) Kokai No. 51-132511 (43) 11.17.1976 (21) Appl. No. 50-55459

(22) 5.13.1975

(71) NIHON SEIKOSHO K.K. (2)

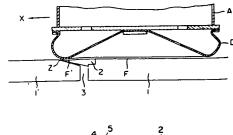
(72) KIYOSHI MATSUMOTO (1)

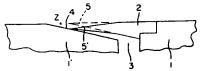
(52) JPC: 78A9

(51) Int. Cl<sup>2</sup>. E01B25/00

PURPOSE: To prevent the jointed portions of a track from causing obstructions for passing through an air bearing, even when the track is expanded or contracted as the ambient temperature is raised or lowered.

CONSTITUTION: When a gap 3 of the jointed portion between the tracks 1 and 1' is separated, the tip end portion 5 of the lip 2 of the track 1 is lowered by its own weight and thus allowed to be in condition shown by numeral 5' thereby to contact with the bevelled portion 4 of the track 1'. The tip end portion of the lip is further pressed against the bevelled portion by the action of air pressure applied from an air bearing A when a diaphragm D of the air bearing A travels on the jointed portion. An unform and annular groove F' is formed in the recess Z to facilitate smooth travelling.





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昭和50年 5月12日

特许疗设官

1. 発明の名称

2. 毙 明 プリガナ 作 所(特所)

特許出願人と同じ

3.特許出願人

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ジョッナ ほ 所(関所)

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4. 添付書類の目録

- 明細書
- X
- 願書副本

1 10

#### 19 日本国特許庁

## 公開特許公報

①特開昭 51-132509

昭51. (i 9 7 6) 11.17 `43公開日

21特願昭 50-56832

22出願日 昭50. (1975) 5./2

審査請求 未請求 (全2頁)

庁内整理番号 6542 37

52日本分類 77 854

31 Int. C12 B60C 19 12

- (1)
- (2) (3)
- (4)

ヤのパンク防止装置

2. 特許 歳 求の 範囲

ゴム引きの布キャンパス等強靱性と弾力性と 気密性をもった材料で作ったフラップ(2)をタイ ヤの内側トレッドの裏の部分に敷き釘(4)などの 側にへてむ事によってこれらの破断力を吸収し とれによって破損される事なくタイヤの空気圧 を維持し(4)を除去すると慮ちに原状に復するメ イヤのパンク防止装置

タイヤのパンクの原因の殆んどは釘などの異 物がタイヤのトレッドの部分を貫通してタイヤ ェーブを破損したりチュープレスタイヤの 場合はタイヤが内部せで破損するとそこから空 気が外部に抜けてパンクしてしまう。この釘な どの異物によるパンクを防ぐため本発明はまく ヤの内側のトレッドの裏の部分にゴム引きの布 様な強靱性とある程度の弾力性をもち、然も気 密を保つことの出来る材料で作ったフラップを 散き釘などの異物がトレッドを買通してこのフ ラップに達した時、内側にへとむ事によって釘 などの破断力を吸収しこれによって破損される 抜けたりあるいは除去した場合は内部の空気形 により痕ちに原状に復する。

次に図面により本発明を説明すると鳴り図は 本発明の接機の全体であり、とれを第2四に示 すごとくタイヤの内側トレッド(1)の裏の形分に 教き、第3國の如く釘がタイヤトレッド(1)を質 通し四に進しなかも内部に進入しよりとすると (2) は図の如く内部にへとみ、(4) の力を吸収して つき破られるととがないのでメイヤ内部の空気 任は正常に機持される。又、(5)の釘が自然に抜

けたり又は離去した場合、内部の空気圧により (2)は点ちに第5個の常額になり、まったく平常 せもどる。

#### 4. 図面の簡単左提明

第1 図は本名明のフラップの全断面図、第2 図は本名明のフラップを組込んだホイルの一部 断面図、第3 図はタイヤトレッドに釘が貫通し た状態のタイヤの一部断面図

1 ...... # 1 + O + V = F

・2.……本発明のフラップ

3 ..... # 1 N

4. ······ \$1

5.....エアパルプ

存許出額人 田中康之

